

V51-301A 128dB μ V gain /36dB max output MATV Commercial & Hotel Amplifier

- Push-pull output stage for very high (128dB μ V) maximum output capability and superb linearity
- Switchable 27dB / 36dB gain
- Excellent gain flatness at ± 0.5 dB
- Built-in 0-18dB adjustable input gain and slope controls
- Switchable 0-3-6dB inter-stage attenuator and slope controls
- Fully screened die-cast housing IP64 rated with earth post
- Input and output test points
- Built-in, screened Switch-Mode-Power-Supply

V51-301 is a high quality, high output MATV amplifier designed for medium and large MATV, Hotel and Commercial installations where high quality digital TV is required with high performance and reliability. V51-301A has input and interstage level and slope equalisation controls. The former are via rotary 0-18dB attenuators and the latter by 0-3-6dB gold contact slider switch attenuators for stability. The amplifier is built into a die-cast housing for high immunity to interference and has input and output test points for convenient and easy set-up and adjustment.

Powered by a built-in and separately screened high grade, reliable switch-mode-power-supply the V51-301A is fitted with a UK standard plug.

V51-301A replaces Vision model V51-101D and V51-301. This new model is designed for backward compatibility where it retains the old frequency input range up to 862MHz where legacy installations have channels 60-69 used on systems. This avoids the need to retune hundreds of TVs tuned to in-house channels. Where 4G/LTE interference protection / filtering is required an external filter should be applied to the input.

Model	V51-301
No of Inputs	1 + test point -20dB
No of Outputs	1 + test point -20dB
Frequency MHz	47-862MHz
Max Output (DIN45004B) IMD ³ =60dB	122dB μ V
Max Output (EN50083-3) IMD ³ -35dB	128dB μ V
Noise Figure	<7.5dB
Gain	27 / 36dB (switchable)
Gain flatness	\pm 0.5dB
Input Level Control	0-18dB
Input Slope Control	0-18dB
Interstage slider switch attenuator	-6/-3/0dB
Interstage slider switch equaliser	-6/-3/0dB
Connectors	F-female input / output & test points
Power requirement	230V/50Hz/4W UK standard 3pin plug fused 3A
Power Indicator	Green LED
Operating temperature	-20° to -50°C
Dimensions including fixing lugs	185 x 91 x 47mm
Weight	0.70kg

Note: this amplifier is intended for use on closed CATV / MATV systems where UHF TV channels 61 to 69 (790 to 862MHz) are still in use for the distribution of locally generated TV programmes. To comply with EN303 354 it may be necessary to fit additional external filters to suit the local intended RF environment.